

Modern College of Engineering, Pune MCA Department A.Y.2023-24

(410907) Software Testing Laboratory

Class: SY-MCA Shift / Div: A Batch: S2 Roll Number: 52043

Q1. Prepare test plan for Online shopping system using MS word.

PES MCOE

Project Name	Online Shopping System
Product Name	Shopping System
Product Release Version	3.0

System Test Plan
Document version: 2.24

Date: 23/09/2023

Prepared By: Vanessa More Reviewed By: Tanima Mandal

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Online Shopping System (OSS)

1. Unique id/test plan identifier

Test plan identifier: OSS_PESMCOE_2023

2. Introduction

The Online Shopping System is in the process of being designed for our customer, PES MCOE. This Online Shopping System is an essential element of contemporary trade, affording consumers the ease of buying goods and services from their residences. The customer anticipates that the platform will be easy to use, safe, and dependable.

Objectives

The objective of this test plan is to define the testing approach and strategy for the Online Shopping system to ensure that it meets its functional and non-functional requirements.

References

- Online Shopping System Requirements Document, Version 1.25
- Online Shopping System Design Document, Version 1.25
- OSS_Project_Plan OSS_23
- OSS Master Test Plan OSS_PES_23

3. Test Items

- Login OSS_1
- Search Items OSS_2
- Add the items into the cart OSS_3
- Add delivery address OSS_4
- Confirm order OSS_5
- Select payment mode OSS_6
- Pay the bill OSS_7
- Help OSS_8

4. Features to Be Tested

- User login
- Product Search and Browsing
- Adding Products to the Cart
- Shopping Cart Management
- Order Placement
- Payment Processing
- User Account Management
- Product Reviews and Ratings
- Product Recommendations

5. Features Not to Be Tested

• Third-party services (e.g., payment gateways) - Will be tested separately by their respective providers.

6. Approach

The OSS will be tested thoroughly on several levels. The test cases, design specifications, test procedure as well as any test scripts are prepared & will be saved in test repository for using further releases.

All the events observed during test execution will be recorded in a test law that will be associated with each test. All failures will assign a severity level & will be recorded in the test incident report.

The system testing will be monitored through weekly test status meetings & the summary reports will be prepared by our technical lead Nidhi.

The following tools will be used to support the system testing efforts:

- Content management system
- Customer Relationship Management (CRM) Software
- Analytics Tools
- Search Engine Optimization (SEO) Tools
- Social Proof and Reviews Platforms

Testing types:

Functional Testing:

- User Interface (UI) Testing: Ensures that the website or app has a user-friendly interface, and all elements are displayed correctly.
- User Experience (UX) Testing: Focuses on the overall user experience, including navigation, ease of use, and responsiveness.
- Navigation Testing: Verifies that users can easily navigate through different sections of the site and access product categories and pages.
- Search Functionality Testing: Checks the search feature for accuracy in returning relevant results.

Compatibility Testing:

- Browser Compatibility Testing: Ensures that the website functions correctly on various web browsers (e.g., Chrome, Firefox, Safari, Edge).
- Device Compatibility Testing: Tests the compatibility of the system on different devices (desktops, tablets, and smartphones) and operating systems (iOS, Android).

Performance Testing:

- Load Testing: Determines how the system performs under heavy traffic loads to ensure it can handle peak usage without crashing.
- Stress Testing: Evaluates how the system behaves under extreme conditions, such as a sudden surge in traffic or simultaneous transactions.
- Speed and Response Time Testing: Measures the loading speed of web pages and responsiveness of the system.

Security Testing:

- Authentication and Authorization Testing: Verifies that user authentication and authorization mechanisms are secure and effective.
- Data Security Testing: Ensures the protection of user data, including encryption and secure storage.
- Payment Security Testing: Validates the security of payment processing and handling of sensitive payment information.

Usability Testing:

- User Testing: Involves real users interacting with the system to gather feedback on usability, user satisfaction, and any pain points.
- Accessibility Testing: Ensures that the website is accessible to users with disabilities, meeting WCAG guidelines.

Regression Testing:

• Ensures that new updates, features, or bug fixes do not negatively impact existing functionality.

Database Testing:

• Checks data integrity, database performance, and data retrieval accuracy.

7. Pass/Fail Criteria

Company's test policy & procedure document TM_2.0_23 describes a scale of severity levels for faults & failures. The scale ranges in values from 1-4 where 1 is failure that has a severe effect on the system & users. The value 4 indicates minimal effect. For the OSS, a test will be considered as pass if the value is between 3-4.Minor defects will be tracked and reported for resolution.

8. Suspend/Resume Criteria

Testing activities may be suspended if critical defects severely affect the testing environment. Testing will resume when these issues are resolved.

9. Test Deliverables

- Test Cases and Test Data
- Test Execution Reports
- Defect Reports
- Final Test Summary Report

10. Testing Tasks

- Test case design and documentation
- Test data preparation
- Test environment setup
- Test execution and defect reporting
- Test summary and reporting

11. Test Environment Hardware Requirements

- Operating System compatibility
- Web Servers (minimum of 2)
- Database Servers
- Desktop and Mobile Devices for Testing
- Internet Connectivity

12. Responsibilities

The test group members responsible for OSS are:

- Riya Kale, Testing Manager: Designing, executing, and reporting on test cases.
- Mihir Deshpande, Development Team Manager: Resolving defects and issues.
- Ronak Bafna, Project Manager: Overall test management and coordination.

13. Staffing and Training

All the testing staff had training in development of test design, test procedures, etc. They have the necessary training in test tool usage & also have experience in test planning, so no additional training for this project is required.

14. Scheduling

Sr. no.	Task	Responsibility	Designation	Start date	End date
1.	Test case design and documentation	Riya Kale	Testing Manager	10/4/23	14/4/23
2.	Test data preparation	Riya Kale	Testing Manager	18/4/23	25/4/23
3.	Test environment setup	Mihir Deshpande	Development Team Manager	1/5/23	10/5/23
4.	Test execution and defect reporting	Riya Kale	Testing Manager	15/5/23	28/5/23
5.	Test summary and reporting	Ronak Bafna	Project Manager	2/6/23	19/6/23

15. Risks and Contingencies

Risk: Delay in development may impact the testing schedule.

Contingency: Adjust the testing schedule accordingly.

Risk: Critical defects found during testing may require significant development efforts.

Contingency: Prioritise defect resolution and retesting.

16. Approvals

• Ms. Kiran Kumar (Test Manager)

Date: 15/8/23 Signature:

Mr. Mahesh Saaho
 (Software Quality Assurance Manager)

Date: 19/8/23 Signature:

• Mr. Ronak Bafna (Project Manager)

Date: 29/8/23 Signature:



Modern College of Engineering, Pune MCA Department A.Y.2023-24

(410907) Software Testing Laboratory

Class: SY-MCA Shift / Div: A Batch: S2 Roll Number: 52043

Q2. Prepare a test plan for an identified Mobile Application - Banking App.

PES MCOE

Project Name	Vamo Banking App
Product Name	Shopping System
Product Release Version	3.0

System Test Plan
Document version: 3.25

Date: 23/09/2023

Prepared By: Vanessa More Reviewed By: Tanima Mandal

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- 15. Risks and contingencies
- 16. Approvals

Vamo Banking App (VBA)

1. Unique id/test plan identifier

Test plan identifier: VBA_MCOE_2023

2. Introduction

The Vamo Banking App is being developed for our client PES MCOE. This banking app emerges as a pioneering solution designed to empower our valued customers with unprecedented control over their financial lives. The client expects the system to be seamless, efficient, and secure.

Objectives

The objective of this test plan is to define the testing approach, scope, resources, and schedule for thoroughly testing the Mobile Banking Application. The goal is to ensure that the application is secure, functions as expected, and provides an excellent user experience while adhering to industry standards and regulations.

References

- Mobile Banking Application Requirements Document, Version 2.25
- Mobile Banking Application Design Document, Version 2.25
- Regulatory and Compliance Guidelines (e.g., banking industry regulations)
- VBA_Project_Plan OSS_23
- VBA Master Test Plan OSS PES 23

3. Test Items

The test items include the Mobile Banking Application and its associated components, such as the user interface, features, and backend services.

4. Features to Be Tested

- User Authentication (Login and Registration)
- Account Balances and Transactions
- Fund Transfers (Internal and External)
- Bill Payments
- Mobile Check Deposits
- ATM and Branch Locator
- Notifications and Alerts
- Account Settings and Profile Management
- Security and Encryption

5. Features Not to Be Tested

• Third-party services (e.g., external payment processors) - These will be tested separately by their respective providers.

6. Approach

The VBA will be tested thoroughly on several levels. The test cases, design specifications, test procedure as well as any test scripts are prepared & will be saved in the test repository for using further releases.

All the events observed during test execution will be recorded in a test law that will be associated with each test. All failures will assign a severity level & will be recorded in the test incident report.

The system testing will be monitored through weekly test status meetings & the summary reports will be prepared by our technical lead Nidhi.

The following tools will be used to support the system testing efforts:

- User Analytics and Monitoring
- Authentication and Authorization Tools
- Fraud Detection Systems
- Mobile App Testing and Quality Assurance
- Database Management Systems (DBMS)

Testing types:

Functional Testing:

- Login and Authentication Testing: Verify that users can securely log in, reset passwords, and authenticate their identity.
- Account Management Testing: Test account creation, deletion, and profile updates.
- Transaction Testing: Validate money transfers, bill payments, and transaction history.
- ATM/Branch Locator Testing: Confirm that the app correctly displays the nearest ATMs and branches.

Security Testing:

- Encryption Testing: Ensure data transmitted between the app and servers is encrypted to protect user information.
- Authentication Testing: Verify that multi-factor authentication (MFA) and biometric authentication methods (e.g., fingerprint or facial recognition) work securely.
- Data Storage Testing: Ensure that sensitive data is stored securely on the device, using secure storage mechanisms.

Compatibility Testing:

- Device Compatibility Testing: Test the app on various mobile devices (iOS and Android) and screen sizes.
- Browser Compatibility Testing: If the app uses a web interface, ensure compatibility with different mobile browsers.
- Operating System Compatibility: Verify the app's compatibility with different OS versions (e.g., iOS 12, Android 10, etc.).

Regression Testing:

• Ensure that new updates or bug fixes do not negatively impact existing functionality.

User Acceptance Testing (UAT):

• Involve end-users in testing to ensure the app meets their needs and expectations.

7. Pass/Fail Criteria

Company's test policy & procedure document TM_4.25_23 describes a scale of severity levels for faults & failures. The scale ranges in values from 1-4 where 1 is failure that has a severe effect on the system & users. The value 4 indicates minimal effect. For the OSS, a test will be considered as pass if the value is between 3-4. Minor defects will be tracked and reported for resolution.

8. Suspend/Resume Criteria

Testing activities may be suspended if critical defects severely affect the testing environment. Testing will resume when these issues are resolved.

9. Test Deliverables

- Test Cases and Test Data
- Test Execution Reports
- Security Assessment Reports
- Accessibility Compliance Reports
- Defect Reports
- User Acceptance Test Results

10. Testing Tasks

- Test case design and documentation
- Test data preparation
- Test environment setup
- Test execution and defect reporting
- Security assessment and vulnerability scanning
- Accessibility testing
- User Acceptance Testing (UAT)
- Test summary and reporting

11. Test Environment Hardware Requirements

- Mobile devices (iOS and Android)
- Emulators and simulators for cross-platform testing
- Internet connectivity for backend testing
- Security testing tools

12. Responsibilities

The test group members responsible for OSS are:

- Bhushan Jain, Testing Team Manager: Designing, executing, & reporting on test cases.
- Ronak Bafna, Development Team Manager: Resolving defects and security vulnerabilities.
- Sakshi Methe, Compliance and Regulatory Team Manager: Ensuring adherence to industry standards and regulations.
- Kiran Kumar, Project Manager: Overall test management and coordination.

13. Staffing and Training

All the testing staff had training in development of test design, test procedures, etc. They have the necessary training in test tool usage & also have experience in test planning, so no additional training for this project is required.

14. Scheduling

Sr. no.	Task	Responsibility	Designation	Start date	End date
1.	Test case design and documentation	Bhushan Jain	Testing Manager	10/4/23	14/4/23
2.	Test data preparation	Bhushan Jain	Testing Manager	18/4/23	25/4/23
3.	Test environment setup	Ronak Bafna	Development Team Manager	1/5/23	10/5/23
4.	Test execution and defect reporting	Bhushan Jain	Testing Manager	15/5/23	28/5/23
5.	Security assessment and vulnerability scanning	Ronak Bafna	Development Team Manager	2/6/23	19/6/23
6.	Test summary and reporting	Kiran Kumar	Project Manager	22/6/23	4/7/23

15. Risks and Contingencies

Risk: Security breaches or data leaks during testing.

Contingency: Regularly update security protocols and monitor for vulnerabilities.

Risk: Unexpected changes in banking regulations.

Contingency: Maintain close communication with regulatory bodies and adapt as needed.

16. Approvals

• Ms. Minal Rao (Test Manager)

Date: 15/8/23 Signature:

 Mr. Shruti Singh (Software Quality Assurance Manager)

Date: 19/8/23 Signature:

• Mrs. Kiran Kumar (Project Manager)

Date: 29/8/23 Signature:



Modern College of Engineering, Pune MCA Department A.Y.2023-24

(410907) Software Testing Laboratory

Class: SY-MCA Shift / Div: A Batch: S2 Roll Number: 52043

Q3. Create manual Test cases for Online Shopping system using Excel.

.Test Cases for the Online Shopping System										
Module	Aut	thentication	Test Data Input	User ID & Password	Testing Date	22-Sep				
Test Scenario	Verification of	of the details for login page	Tester	Vanessa	Authorized by	Sakshi				
Test case ID	Test Case	Requirements	Expected (Outcome	Actual Outcome	Status				
OSS_1_1	Valid login credetials	The user enters a valid user ID and password that exist in the system.	The user is su logged in to th		As expected	Pass				
OSS_1_2	Invalid User ID	The user enters an invalid user ID that does not exist in the system.	An error me displayed, inc invalid us	dicating an	As expected	Pass				
OSS_1_3	Invalid Password	The user enters a valid user ID but an incorrect password.	An error modisplayed, incorrect pa	dicating an	User is logged into their account	Fail				
OSS_1_4	Empty User ID Field	The user leaves the user ID field empty.	An error modisplayed, indicuser ID field i	ating that the	As expected	Pass				
OSS_1_5	Empty Password Field	The user leaves the password field empty.	An error modisplayed, indic password field	ating that the	As expected	Pass				
OSS_1_6	Password Strength	The user enters a valid user ID and a weak password (e.g., less than 8 characters).	An error me displayed, indic password i	ating that the	Accepts the weak password entered by the user	Fail				
OSS_1_7	User ID Case Sensitivity	The user enters a user ID with different letter case (e.g., "Username" instead of "username").	The system sho insensitive and login nor	process the	As expected	Pass				
OSS_1_8	Password Case Sensitivity	The user enters a password with different letter case (e.g., "Password" instead of "password").	The system sho sensitive and erro	display an	As expected	Pass				

Module	Product se	earch & browsing	Test Data Input	Search categories, product categories, etc.	Testing Date	28-Sep
Test Scenario		n of the details on fication & browsing	Tester	Nidhi	Authorized by	Rajesh
Test case ID	Test Case	Requirements	Expected (Outcome	Actual Outcome	Status
OSS_2_1	Basic Product Search	The user enters a valid search query in the search bar and presses "Enter" or clicks the search button.	A list of p matching the displayed. Th see product na and ima	e query is ne user can mes, prices,	As expected	Pass
OSS_2_2	Empty Search Query	The user leaves the search query field empty and clicks the search button.	An error med prompt is do indicating that query is re	isplayed, at a search	As expected	Pass
OSS_2_3	Searching with Filters	The user applies filters (e.g., price range, brand, size) to narrow down search results.	The displayed properties of th	ding to the	The products are not filtered	Fail
OSS_2_4	Back Navigation	After browsing a product details page, the user clicks the "Back" button or uses the browser's back navigation.	The user is returned previous page results or control browsing) where the previous states the previous states are the previous page of the previ	(e.g., search category with their	As expected	Pass
OSS_2_5	Pagination	When there are more products than can be displayed on a single page, the user navigates to the next page.	The user sees a products on the with paginatic for navig	e next page, on controls	Refreshes the page	Fail
OSS_2_6	Product Image Zoom	On the product details page, the user clicks on a product image.	The image is e better visibilit the user to se details more	y, allowing ee product	Image is not enlarged	Fail

Module	-	ement & payment Formation	Test Data Input	Add items to cart, selection, etc.	Testing Date	28-Sep
Test Scenario		of the details on the ler placed	Tester	Tanay	Authorized by	Vijay
Test case					Actual	
ID	Test Case	Requirements	Expected (Outcome	Outcome	Status
OSS_3_1	Adding Items to Cart	The user adds one or more products to the shopping cart.	The selected p added to the correct qua	cart with	As expected	Pass
OSS_3_2	Cart Validation	The user reviews the shopping cart before proceeding to checkout.	The cart dis selected items prices, and a amou	quantities, total order	As expected	Pass
OSS_3_3	Cart Update	The user modifies the quantity of items in the cart (e.g., increases, decreases, or removes items).	The cart u accordingly, s revised quan adjusted tota	howing the tities and	The cart is not updated or revised	Fail
OSS_3_4	Out of Stock Product Handling	The user attempts to place an order for a product that is out of stock.	An error modisplayed, ind the product is of and the use process	icating that out of stock, r cannot ed.	As expected	Pass
OSS_3_5	Order Confirmation	The user confirms the order after reviewing the details.	An order cor page is display the order nu expected deli	ed, showing mber and	As expected	Pass
OSS_3_6	Order Total Calculation	The user adds products to the cart with different prices and quantities, and the order total is calculated.	The order total reflects the selected properties, applicable discou	um of the roducts, and any taxes or	The order total is wrong	Fail
OSS_3_7	Payment Method Selection	The user selects a payment method (e.g., credit card, PayPal, cash on delivery) during checkout.	The selected method is dispersion the user process payment description.	olayed, and eds to enter etails if	As expected	Pass
OSS_3_8	Payment Information Validation	The user enters incomplete or incorrect payment information during checkout.	An error medisplayed, independent missing or invalid and the use process.	icating the ralid fields, r cannot	As expected	Pass



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(410907) Software Testing Laboratory

Class: SY-MCA Shift / Div: A Batch: S2 Roll Number: 52043

Q4. Create manual Test cases for Mobile Application - Banking App using Excel.

Test Cases for the Banking App										
Module	Authe	entication	Test Data Input	User ID & Password	Testing Date	5-Sep				
Test Scenario	Verification of the	details for login page	Tester	Tanisha	Authorized by	Rohit				
Test case ID	Test Case	Requirements	Expec	ted Outcome	Actual Outcome	Status				
VBA_1_1	Valid login credetials	The user enters a valid user ID and password that exist in the system.		is successfully to their account.	As expected	Pass				
VBA_1_2	Invalid User ID	The user enters an invalid user ID that does not exist in the system.	displaye	or message is d, indicating an lid user ID.	As expected	Pass				
VBA_1_3	Invalid Password	The user enters a valid user ID but an incorrect password.	displaye	or message is d, indicating an ect password.	User is logged into their account	Fail				
VBA_1_4	Empty User ID Field	The user leaves the user ID field empty.	displayed,	or message is indicating that the field is required.	As expected	Pass				
VBA_1_5	Empty Password Field	The user leaves the password field empty.	displayed,	or message is indicating that the field is required.	As expected	Pass				
VBA_1_6	Password Strength	The user enters a valid user ID and a weak password (e.g., less than 8 characters).	displayed,	or message is indicating that the word is weak.	Accepts the weak password entered by the user	Fail				
VBA_1_7	User ID Case Sensitivity	The user enters a user ID with different letter case (e.g., "Username" instead of "username").	insensitiv	m should be case- e and process the n normally.	As expected	Pass				
VBA_1_8	Password Case Sensitivity	The user enters a password with different letter case (e.g., "Password" instead of "password").	•	n should be case- e and display an error.	As expected	Pass				

Module	Account balance	ce & transactions	Test Data Input	Account no.,credentials, etc.	Testing Date	10-Sep
Test Scenario	Verification of th	e details on account	Tester	Karan	Authorized by	Nisha
Test case ID	Test Case	Requirements	Expec	ted Outcome	Actual Outcome	Status
VBA_2_1	Check Initial Balance	User has a valid account with a balance	Initial ba	lance displayed	As expected	Pass
VBA_2_2	Deposit Money	User wants to deposit money into their account		balance updated orrectly	As expected	Pass
VBA_2_3	Insufficient Funds	User attempts to withdraw more than the balance	Error me	ssage displayed	As expected	Pass
VBA_2_4	Invalid Account	User enters an invalid account number	Error me	ssage displayed	As expected	Pass
VBA_2_5	Transaction Limits	User tries to perform a transaction above limits		saction limit exceeded	As expected	Pass
VBA_2_6	Account Lockout	User enters incorrect PIN multiple times		nt locked after ttempts	Account is not locked	Fail
Module		tings & Profile gement	Test Data Input	Email, passwords, etc.	Testing Date	16-Sep
Test Scenario	Update profile wi	th proper conditions	Tester	Vanessa	Authorized by	Vinit
Test case	The A. Chang	D	T	. 10 4	Actual	C4 · 4
ID	Test Case	Requirements	Expec	ted Outcome	Outcome	Status
VBA_3_1	User can change their password	User must be logged in		l is successfully hanged	Not allowing to change password	Fail
VBA_3_2	User can link external accounts	User must be logged in		l accounts are sfully linked	As expected	Pass
VBA_3_3	User can view recent login history	User must be logged in	display	ogin history is yed correctly	As expected	Pass
VBA_3_4	User receives an email confirmation	User updates email address	sent to	confirmation is the new email address	As expected	Pass
VBA_3_5	User can recover their account	User enters correct account recovery information		nt recovery is accessful	Account is not recovered	Fail
	User can select	User must be	D C	ed language is		



Class: SY-MCA

Progressive Education Society's

Modern College of Engineering, Pune MCA Department A.Y.2023-24

(410907) Software Testing Laboratory

Batch: S2

Roll Number: 52043

Shift / Div: A

Name: Vanessa Reetu Prashant More	Assignment No: 2	Date of Implementation: 29. 9. 23
*************	*******	***********
Q1. Design template using Excel for Defect R	Report.	

	DEFECT REPOSITORY												
Project I	Name:												
Module	Name:												
Release	:												
Program	Manager:												
Project I	Manager:												
Defect ID	Date Created	Created By	Defect Description	Steps to reproduce the defects	Severity	Priority	Test case ID	Assigned To	Assigned Date	Status	Resolution Date	Expected Result	Actual Result



Modern College of Engineering, Pune MCA Department A.Y.2023-24

(410907) Software Testing Laboratory

Class: SY-MCA Shift / Div: A Batch: S2 Roll Number: 52043

Q2. Prepare Defect Repository for Online shopping system using MS Excel

Projec	t Name:	Online Shopping System											
Modul	e Name:		Authenticat	ion, Product s	search &	browsing,	Payment	t					
Release: 2.4 version													
Program Manager: Vanessa More													
Projec	t Manage	r:	Kiran Shah										
Defe ct ID	Date Creat ed	Created By	Defect Descripti on	Steps to reproduc e the defects	Seve rity	Priorit y	Test case ID	Assig ned To	Assign ed Date	Stat us	Resoluti on Date	Expected Result	Actual Result
DI_1 _1	01-09- 2023	Tina	Checkout error after payment fails	Enter the payment details correctly	High	High	OSS _3_1	Dani el	01-09- 2023	Open	-	Able to pay and checkout	Payment successful but checkout fails
DI_1 _2	03-09- 2023	Roy	Broken Image	Visit product page or refresh the page	Low	Mediu m	OSS _2_6	Dani el	04-10- 2023	Fixe d	05-09- 2023	Image displayed	Successful
DI_1 _3	05-09- 2023	Tina	Login Issue	Login with valid credential s	High	High	OSS _1_1	Nish a	04-10- 2023	Clos ed	05-09- 2023	Error message	Successful
DI_1 _4	06-09- 2023	Nikita	Search product issue	Enter search query properly	Medi um	Mediu m	OSS _2_1	Nish a	07-10- 2023	Open	-	Relevant search	Fail
DI_1 _5	06-09- 2023	Rohan	Add to Wishlist but product added into cart	1.)Select the item and choose the appropriat e option 2.)Refresh the page	High	High	OSS _3_1	Neha	07-10- 2023	Clos ed	06-09- 2023	Item added to wishlist	Successfull



Modern College of Engineering, Pune MCA Department A.Y.2023-24

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Q3. Prepare Defect Repository for Mobile Application – Banking App using MS Excel

Project Name:		Vamo Banking App											
Module Name:		Authentication, Account transactions & Profile Management											
Release:		3.3 version											
Program Manager:			Vanessa More										
Project	Manager	:	Ronak Bafna										
Defect ID	Date Creat ed	Created By	Defect Descrip tion	Steps to reproduce the defects	Seve rity	Priori ty	Test case ID	Assig ned To	Assig ned Date	Status	Resoluti on Date	Expected Result	Actual Result
DI_2_ 1	03-09- 2023	Kiran	Login Issue	Login with valid credentials	Hig h	High	VB A_1 _1	Reetu	03-10- 2023	Close d	03-09- 2023	Error message	Successful
DI_2_ 2	05-09- 2023	Bhushan	Transact ion amount mismatc h	Initiate a fund transfer with an amount that matches the intended	Med ium	Mediu m	VB A_2 _4	Sneha	06-10- 2023	Open	-	Successful transaction	Transaction failed
DI_2_ 3	07-09- 2023	Riya	Account balance display error	Check account credentials properly	Med ium	Mediu m	VB A_2 _4	Sneha	07-10- 2023	Open	-	Display current account balance	Fails
DI_2_ 4	07-09- 2023	Tina	UI Inconsis tency	Navigate to differnet screens shows different font size	Med ium	Mediu m	VB A_2 _3	Rohit	08-10- 2023	Open	-	Consistent UI	UI elements
DI_2_ 5	08-09- 2023	Ashutos h	Payment Failure	Initiate transaction with sufficient funds	Low	Low	VB A_2 _8	Kriti	09-10- 2023	Close d	09-10- 2023	Successful transaction	Successful



Modern College of Engineering, Pune MCA Department A.Y.2023-24

(410907) Software Testing Laboratory

Class: SY-MCA Shift / Div: A Batch: S2 Roll Number: 52043

Name: Vanessa Reetu Prashant More Assignment No: 3 Date of Implementation: 3. 11. 23

Q1. Write black box test cases using ECP & BVA to test the requirement –

Bank has different charges depending on the transaction done

5% of the amount for transaction less than or equal to 5000

6% of the amount for transaction more than 5000 and less than or equal to 7000

7% of the amount for transaction more than 7000

	Name: Vanessa More SYMCA Div: A Roll no: 52043 Batch: S2. Subject: Software Testing Laboratory Assignment 3.								
<i>&</i> 1.	Write black box test cases using ECP& BVA to test the requirement - Bank has different charges depending on the transaction done. 5% of the amount for transaction less than or equal to 5000 6% of the amount for transaction more than 5000 & less than or equal to 7000 7% of the amount for transaction more than								
>	BVA								
	Position Valid Position Valid Position Valid Position 1 2 4999 5001 6999 7001								
	Valid I Saltion								

ECP:

Test Case Id	Partition	Type of input	Test Data	Expected output
BR_1	transaction amt. <=5000	Valid	1, 2, 4999, 5000	Transaction charges=5% of amt.
BR_2	transaction amt. >=5000 & <=7000	Valid	5001, 6999, 7000	Transaction charges=6% of amt.
BR_3	transaction amt. >7000	Valid	7001	Transaction charges=7% of amt.
BR_4	transaction amt. <1	Invalid	0	Error message "Invalid amt."

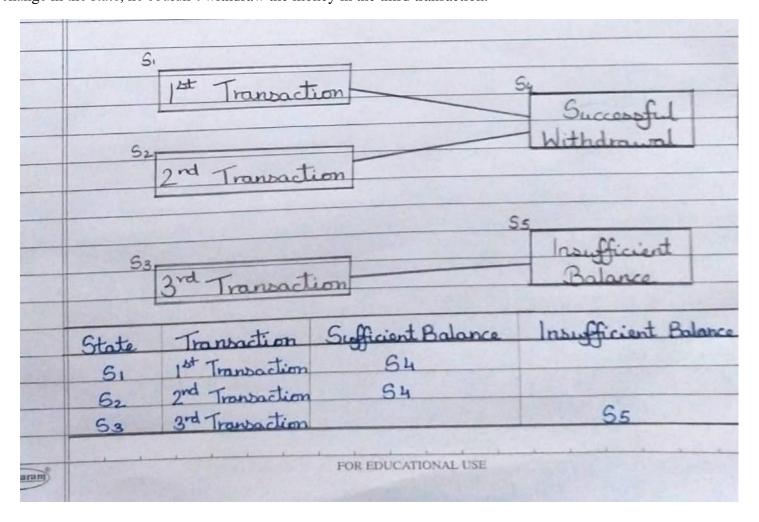


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Q2. Write black box test cases using state based(state transition) technique to test the requirement — Withdrawal of money from ATM. 'User A' wants to withdraw 30,000 from ATM. Imagine he could take 10,000 per transaction and total balance available in the account is 25,000. In the first two attempts, he could withdraw money. Whereas in the third attempt, ATM shows a message as "Insufficient balance, contact Bank". Same Action but due to change in the state, he couldn't withdraw the money in the third transaction.



Test Case Id	Test scenario	Test step	Test data	Expected output	Actual output
ATM_1	Check withdraw money transaction amt.	withdraw Rs.10000	10000	Avail. balance=15000	Avail. balance=15000
ATM_2	Check withdraw money transaction amt.	withdraw Rs.10000	10000	Avail. balance=5000	Avail. balance=5000
ATM_3	Check withdraw money transaction amt.	withdraw Rs.10000	10000	Error message:"Insufficient balance "	Error message:"Insufficient balance "



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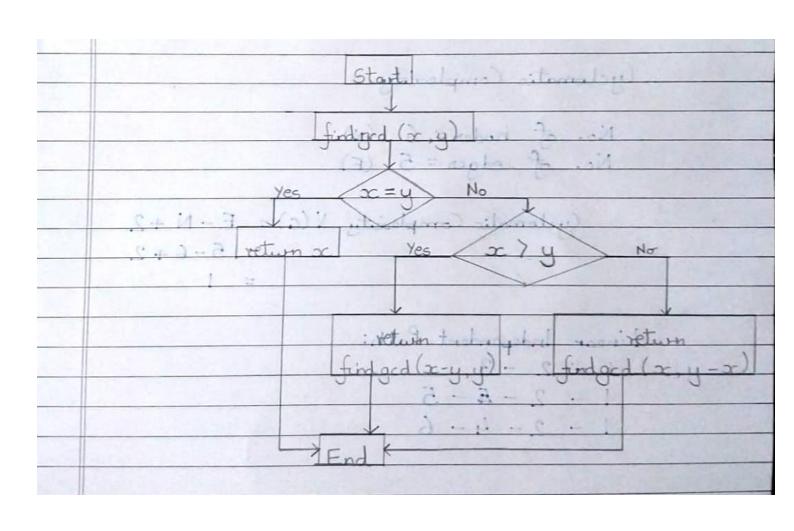
Name: Vanessa Reetu Prashant More Assignment No: 3 Date of Implementation: 3. 11. 23

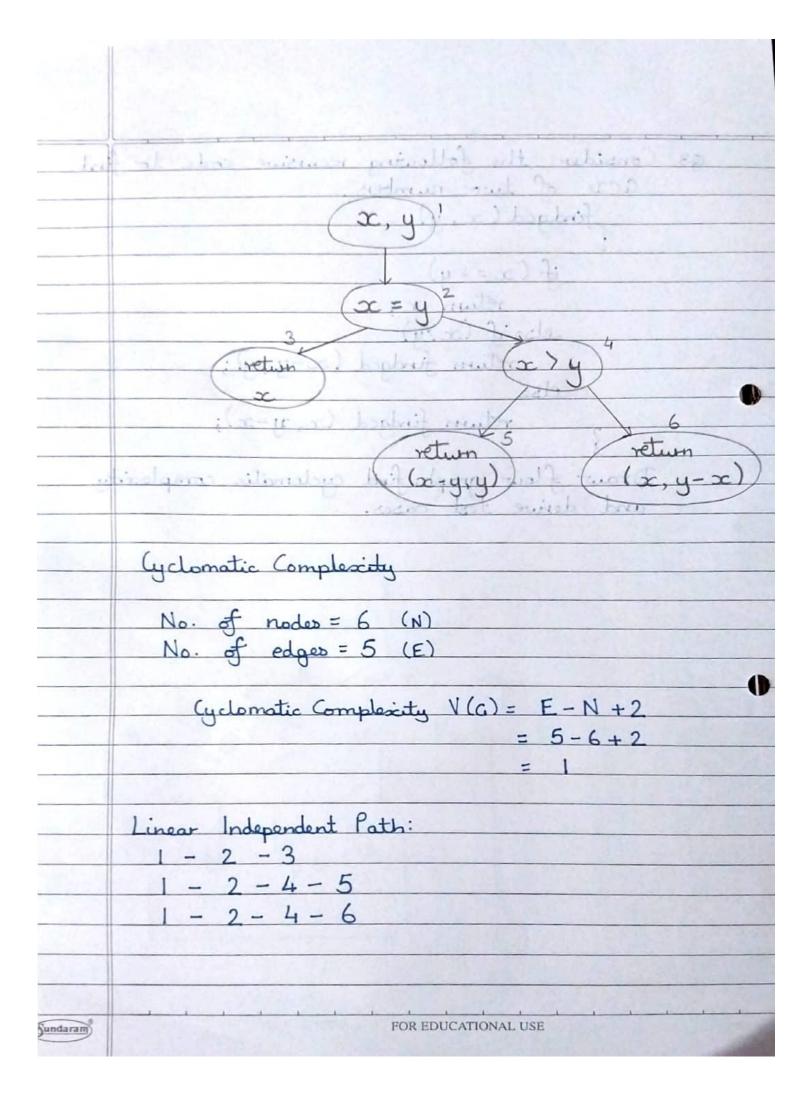
Q3. Consider the following recursive code to find GCD of two numbers finded (v. v)

findgcd (x , y)
{
 if (x = y)
 return x;
 else if (x>y)
 return findgcd(x-y,y);
 else
 return findgcd(x,y-x);
}

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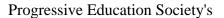
Draw flow graph, find cyclomatic complexity and derive test cases





Test Case Id	Test Case Description	Type of Input	Steps	Test data	Expected output	Actual output	Status
TC_001	find_gcd(x,y)	Valid	Read x and y such that x=y	x=5, y=5	return x	return x	Pass
TC_002	find_gcd(x,y)	Valid	Read x and y such that x>y	x=8, y=4	return find_gcd(x,y- x)	return find_gcd(x- y,y)	Pass
TC_003	find_gcd(x,y)	Valid	Read x and y such that x <y< td=""><td>x=3, y=9</td><td>return find_gcd(x- y,y)</td><td>return find_gcd(x- y,y)</td><td>Pass</td></y<>	x=3, y=9	return find_gcd(x- y,y)	return find_gcd(x- y,y)	Pass

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Name: Vanessa Reetu Prashant More **Assignment No:** 4 **Date of Implementation:** 24. 11. 23

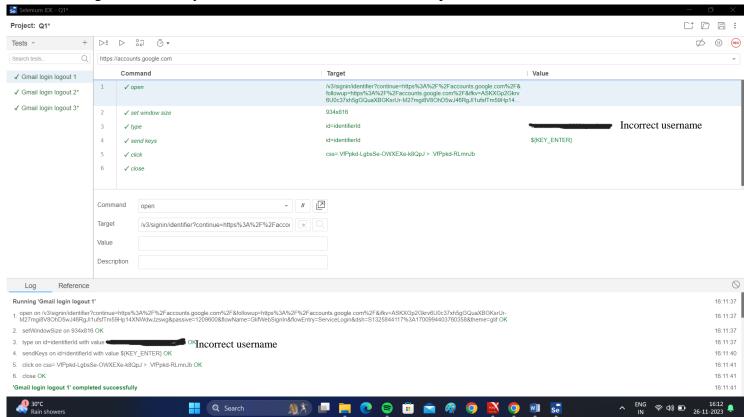
Q1. Install Selenium IDE in Mozilla Firefox/ Google Chrome

Using "https://accounts.google.com" Test Gmail Login Logout functionality in IDE (Record and Replay)

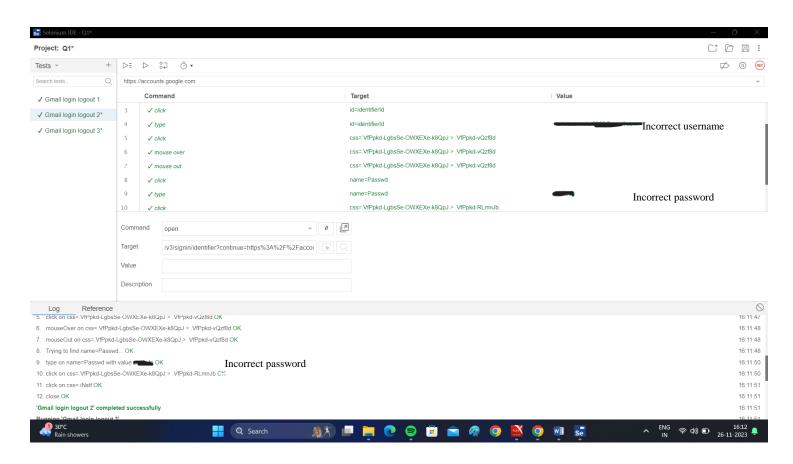
- Test Gmail login functionality with incorrect username and correct password.
- Test Gmail login functionality with incorrect username and incorrect password.
- Test Gmail login functionality with correct username and correct password.

Output:

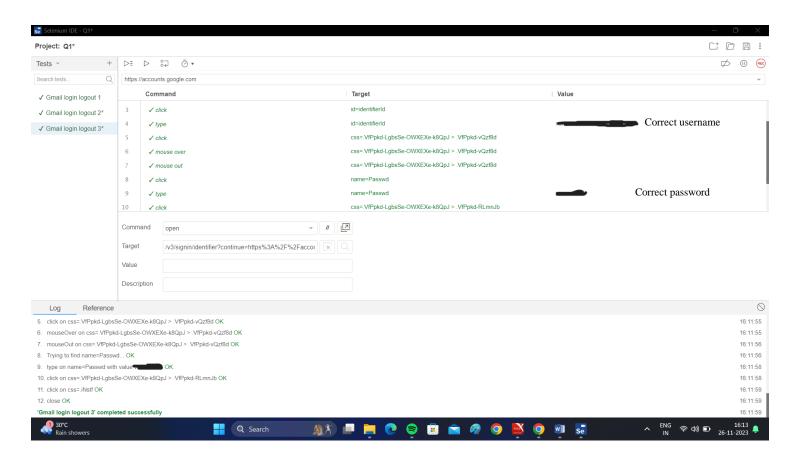
Test Gmail login functionality with incorrect username and correct password.

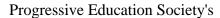


Test Gmail login functionality with incorrect username and incorrect password.



Test Gmail login functionality with correct username and correct password.







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Q2. Test following scenario in Selenium IDE using record and replay Invoke Google Chrome browser.

• Open URL: www.google.com

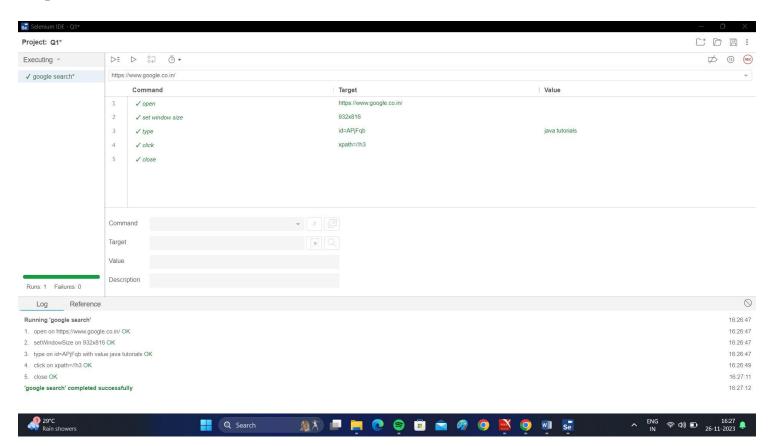
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• Click on the Google Search text box.

Name: Vanessa Reetu Prashant More

- Type the value "java tutorials"
- Click on any of java tutorial link

Output:





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Q.3 Automate Gmail/Rediffmail/Hotmail login flow using Selenium Web Driver

Code:

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}

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
public class login {
      public static void main(String[] args) {
              // TODO Auto-generated method stub
              System.setProperty("webdriver.chrome.driver", "E:\\softwares\\chromedriver-
win64\\chromedriver-win64\\chromedriver.exe");
              WebDriver driver = new ChromeDriver();
              driver.get("https://accounts.google.com");
              driver.findElement(By.id("identifierId"));
              driver.findElement(By.id("identifierId")).sendKeys("***********");
              driver.findElement(Bv.xpath("//*[@id='identifierNext']")).click();
              driver.findElement(By.name("password")).sendKeys("******");
              driver.findElement(By.xpath("//*[@id='passwordNext']")).click();
       }
```



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Date of Implementation: 24. 11. 23 Name: Vanessa Reetu Prashant More **Assignment No:** 4 Q.4. Handle multiple windows using Selenium. (use site naukri.com) using SeleniumWeb Driver. Code: import java.util.Iterator; import java.util.Set; import org.openqa.selenium.WebDriver; import org.openqa.selenium.chrome.ChromeDriver; public class multipleWindow { public static void main(String[] args) throws Exception { System.setProperty("webdriver.chrome.driver", "E:\\softwares\\chromedriverwin64\\chromedriver-win64\\chromedriver.exe"); WebDriver driver = new ChromeDriver(); driver.manage().window().maximize(); // To open Naukri.com with multiple windows driver.get("https://www.naukri.com/"); Thread.sleep(2000); // It will return the parent window name as a String String parentWinID = driver.getWindowHandle(); System.out.println("Parent Win ID is: " + parentWinID); // It returns no. of windows opened by WebDriver and will return Set of Strings

Set<String> allWinID = driver.getWindowHandles();

System.out.println("All win IDs are:");

// Using Iterator to iterate with in windows
Iterator<String> itr = allWinID.iterator();

for (String allIDs : allWinID) {
 System.out.println(allIDs);

String childWinID = itr.next();

while (itr.hasNext()) {

System.out.println("Total Window size:" +allWinID.size());

Output:

```
Parent Win ID is: 0D692EF85935CBBC19273CD7F1913210
Total Window size:1
All win IDs are:
0D692EF85935CBBC19273CD7F1913210
```

.....